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RCA F25424TX51 SERVICE MANUAL

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SAFETY PRECAUTIONS

SERVICE WARNING

Only qualified service technicians who are familiar with safety checks and guidelines should perform service work. Before replacing parts, disconnect power source to protect electrostatically sensitive parts. Do not attempt to modify any circuit unless so recommended by the manufacturer. When servicing the receiver, use an isolation transformer between the line cord and power receptacle.

SERVICING THE HIGH VOLTAGE AND CRT

Use EXTREME CAUTION when servicing the high voltage circuits. To discharge static high voltage, connect a 10K ohms resistor in series with a test lead between the receiver ground and CRT anode lead. DO NOT lift the CRT by the neck. Always wear shatterproof goggles when handling the CRT to protect eyes in case of implosion.

X-RAY RADIATION AND HIGH VOLTAGE LIMITS

Be aware of the instructions and procedures covering X-ray radiation. In solid-state receivers and monitors, the CRT is the only potential source of X-rays. Keep an accurate high voltage meter available at all times. Check meter calibration periodically. Whenever servicing a receiver, check the high voltage at various brightness levels to be sure it is regulating properly. Keep high voltage at rated value, NO HIGHER. Excessive high voltage may cause X-ray radiation or failure of associated components. DO NOT depend on protection circuits to keep voltage at rated value. When troubleshooting a receiver with excessive high voltage, avoid close contact with the CRT. DO NOT operate the receiver longer than necessary. To locate the cause of excessive high voltage, use a variable AC transformer to regulate voltage. In present receivers, many electrical and mechanical components have safety related characteristics which are not detectable by visual inspection. Such components are identified by a # on both the schematic and the parts list. For SAFETY, use only equivalent replacement parts when replacing these components.

GENERAL GUIDELINES

Perform a final SAFETY CHECK before returning receiver to customer. Check repaired area for poorly soldered connections, and check entire circuit board for solder splashes. Check board wiring for pinched wires or wires contacting any high wattage resistors. Check that all control knobs, shields, covers, grounds, and mounting hardware have been replaced. Be sure to replace all insulators and restore proper lead dress.

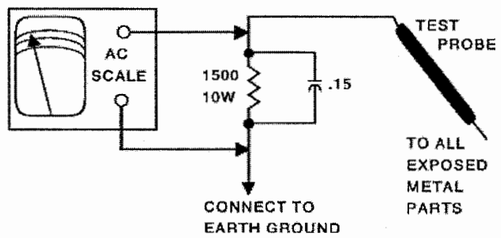
SAFETY CHECKS — FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

Unplug the AC cord, connect a jumper across the plug prongs, and turn the power switch on (if applicable). Use an ohmmeter to measure the resistance between the jumped AC plug and any exposed metal cabinet parts such as antenna screw heads, control shafts, or handle brackets. Exposed metal parts with a return path should measure between 1M ohms and 5.2M ohms. Parts without a return path must measure infinity.

Hot Leakage Current Check

Plug the AC cord directly into an AC outlet. DO NOT use an isolation transformer. Use a 1500 ohms, 10W resistor in parallel with a .15µF capacitor to connect between any exposed metal parts on the receiver and a good earth ground. (See figure below.) Use an AC voltmeter with at least 5000 ohms per volt sensitivity to measure the voltage across the resistor. Check all exposed metal parts and measure voltage at each point. Voltage measurements should not exceed .75VAC, 500µA. Any value exceeding this limit constitutes a potential shock hazard and must be corrected. If the AC plug is not polarized, reverse the AC plug and repeat exposed metal part voltage measurement at each point.



HIGH VOLTAGE SHUTDOWN TEST

Momentarily short BC14901 (see base of Q14901 to ground. The receiver should lose raster and sound. If receiver does not lose raster and sound, the shutdown circuit should be repaired. To resurme normal operation, remove AC powere for approximatley 30 seconds and then turn the receiver on.

The listing of any available replacement part herein in no case constitutes a recommendation, warranty, or guarantee by SAMS Technical Publishing, LLC as to the quality and suitability of such replacement part. The numbers of the listed parts have been compiled from information furnished to SAMS Technical Publishing, LLC by the manufacturers of the specific type of replacement part listed.

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PHOTOFACT® *Technical Service Data*

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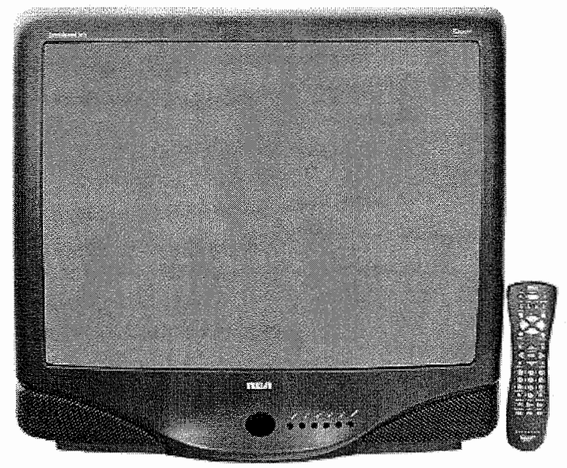
For a Complete List of Manuals,
Visit www.samswebsite.com

RCA

Model F25424TX51 (Chassis CTC203AC9)



Representative Model

Essential coverage for servicing a television receiver...

- Schematics
- Component locations
- Parts list

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TUNER CIRCUIT VOLTAGE CHART

Pin No.	VHF Low Band	VHF High Band	UHF Band
U17301			
1	4.9V	4.8V	4.8V
2	3.1V	3.1V	3.1V
3	7.6V	7.6V	7.5V
4	3.1V	3.1V	3.1V
5	7.6V	7.6V	7.5V
6	0V	0V	0V
7	6.4V	6.3V	.2V
8	9.2V	9.2V	9.2V
9	3.4V	3.4V	3.4V
10	3.2V	3.2V	3.0V
11	7.2V	6.8V	9.2V
12	3.2V	3.2V	3.0V
13	0V	0V	0V
14	9.3V	9.2V	6.4V
15	3.5V	3.5V	3.2V
16	3.5V	3.5V	3.2V
U17401			
1	1.8V	1.8V	1.9V
2	2.6V	2.6V	2.6V
3	0V	0V	2.6V
4	34.0V	34.0V	34.0V
5	2.3V	4.4V	4.8V
6	1.6V	4.8V	4.9V
7	1.8V	4.4V	4.8V
8	2.1V	5.1V	4.3V
9	5.0V	5.0V	5.0V
10	1.5V	1.5V	1.5V
11	1.5V	1.5V	1.5V
12	0V	0V	0V
13	1.2V	1.2V	1.2V
14	11.1V	11.1V	.3V
15	0V	0V	3.9V
16	3.9V	3.9V	3.9V
17	11.7V	11.7V	11.7V
18	4.9V	4.9V	4.9V
19	4.9V	4.9V	4.9V
20	0V	0V	0V

Pin No.	VHF Low Band	VHF High Band	UHF Band
Q17101			
G1	0V	0V	1.8V
G2	5.1V	5.1V	5.1V
D	0V	0V	11.5V
S	0V	0V	0V
Q17102			
G1	1.8V	1.8V	0V
G2	5.3V	5.3V	5.3V
D	11.7V	11.6V	0V
S	0V	0V	0V
Q17402			
E	12.0V	12.0V	12.0V
B	11.7V	11.0V	11.7V
C	-11.3V	-11.6V	-11.1V
Q17403			
E	12.0V	12.0V	12.0V
B	.5V	.6V	11.4V
C	11.8V	11.6V	.1V
Q17404			
E	12.0V	12.0V	12.0V
B	11.8V	11.7V	11.0V
C	.5V	.6V	11.4V

NOTE: Voltages taken with signal.
VHF Low Band voltages taken on channel 2.
VHF High Band voltages taken on channel 7.
UHF Band voltages taken on channel 14.

Important Parts Information

- **Parts not listed in the parts list are commonly available at your local electronics parts retailer.**
- The parts listed here are those not usually available from a well-stocked supply cabinet or bin.
- Where items may be replaced with equivalent parts, several alternates are shown from participating vendors.
- On the parts lists, safety items are marked with a # to remind you that only exact replacements are recommended for these items.
- When ordering parts, state the model number, part number, and description.

Obtaining Parts

Many of these parts are available from your local Sams authorized distributor or the manufacturer of the equipment. Call Sams for the name of your nearest distributor:

800-428-7267

Participating Vendors

Information on test equipment and replacement parts is listed in these pages for the following participating vendors.

- NTE Electronics, Inc. (NTE)
- Sencore, Inc.

MISCELLANEOUS ADJUSTMENTS

NOTE: All procedures require an antenna connected and power applied to the set.

HIGH VOLTAGE CHECK

Tune in a picture. Set brightness, contrast, and color to minimum. Connect a high voltage probe to the CRT anode. High voltage should measure 25.5kV to 27.5kV.

COLOR TEMPERATURE

NOTE: See Service Adjustment Parameters to change drive and bias values.

Press menu button for collapsed raster service line. Disconnect the antenna. Preset the red, green, and blue drive values to 32. Adjust screen control for a service line that is just visible. Adjust red, green, and blue drives to obtain a white raster. Check the low light to high light gray scale tracking. Repeat the procedure, if necessary, to obtain the best performance.

SERVICE MENU

The following adjustment procedures are accessed thru a service menu. To access the service menu, turn the receiver on, press the menu button and hold it down while pressing the power button. While holding down the menu button, release the power button and press the volume + button. The screen will display a one line menu, on the left the parameter P0, and on the right the value of that parameter V0. Release buttons. Adjustments are made by selecting the proper parameter and changing the value of that parameter. To change the parameter number use channel up and down buttons. To adjust the current value of that parameter use volume + and - buttons. To access and change any of the adjustments, the proper parameter pass number must be entered. This information is listed at the beginning of the alignment. When these parameters are modified, the T-Chip and the corresponding EEPROM are updated. All service adjustments are bus controlled, except focus and screen.

NOTE: In order to adjust the RF AGC, audio or video levels, tuner, PIP, or stereo circuits, the ChipperCheck hardware and software must be used. This can be purchased from Thomson Electronics. Before making any changes to any of the values, record the On Set values.

SERVICE ADJUSTMENT PARAMETERS

Parameter No.	Parameter Name	On Set Value	Value Range	Comment
0	Pass number for service adjustment parameters.	-	Must set to 76	May not advance until value is set to 76.
1	Error Code 1	0	0 - 255	Displays the first error detected. Set to 0 before exiting. See Error Codes Chart.
2	Error Code 2	0	0 - 255	Displays the second error detected. Set to 0 before exiting. See Error Codes Chart.
3	Error Code 3	0	0 - 255	Displays the last error detected. Set to 0 before exiting. See Error Codes Chart.
4	Horizontal Phase	8	0 - 15	Set value to 8.
5	EW DC (Width)	12	0 - 31	Adjust for slight horizontal overscan.
6	EW Amplitude	8	0 - 15	Set value to 8.
7	EW Tilt	8	0 - 15	Set value to 8.
8	Top Corner Pin Correction	2	0 - 7	Set value to 2.
9	Bottom Corner Pin Correction	2	0 - 7	Set value to 2.
10	Vertical DC	33	0 - 63	Adjust to center vertically.
11	Vertical Size	73	0 - 127	Adjust for slight vertical overscan.
12	Vertical Countdown Mode	0	0 - 3	Set value to 0. (0 = Standard, 1 = Non-Standard, 2 = 50Hz, 3 = 48Hz)
13	Red Bias	25	0 - 127	Press menu button on the TV set for setup line.
14	Green Bias	5	0 - 127	Press menu button on the TV set for setup line.
15	Blue Bias	23	0 - 127	Press menu button on the TV set for setup line.
16	Red Drive	43	0 - 63	Press menu button on the TV set for setup line.
17	Green Drive	32	0 - 63	Press menu button on the TV set for setup line.
18	Blue Drive	31	0 - 63	Press menu button on the TV set for setup line.
19	Gemstar Horizontal OSD Position	21	0 - 255	Set value to 21.
20	Gemstar Vertical OSD Position	33	0 - 255	Set value to 33.
21	Gemstar PIP Horizontal Position	40	0 - 255	Set value to 40.
22	Gemstar PIP Vertical Position	43	0 - 255	Set value to 43.
23	Gemstar PIP Window Vertical Size	3	0 - 13	Set value to 3.

ERROR CODES CHART

Error Code DEC	HEX	Error Location	Condition Indicated
0	00	No error code	-
1	01	Detected by U13101	16.0V STBY source is failing.
3	03	Detected by U13101	12.0V source is failing.
8	08	U12101	X-ray protection caused high voltage shutdown.
9	09	U12101	Power supply problem at reset/U12101.
10	0A	PIP module error	Power supply problem at reset/PIP.
11	0B	Stereo decoder	Power supply problem at reset/Stereo decoder.
16	10	Detected by U13101	U13101 run IIC clock or data held low.
18	12	Detected by U13101	U13101 standby IIC clock or data held low.
34	22	Gemstar Board	Gemstar fails to acknowledge.
44	2C	U18100	F2PIP fails to acknowledge.
102	66	Octal DAC	Octal DAC fails to acknowledge.
128	80	Stereo decoder	Stereo decoder fails to acknowledge.
160	A0	Main or PIP tuner EEPROM	Main or PIP tuner EEPROM fails to acknowledge.
186	BA	U12101	U12101 fails to acknowledge.
196	C4	Main tuner PLL/DAC	Main tuner PLL IC fails to acknowledge.
198	C6	Main tuner PLL/DAC	Main tuner DAC IC fails to acknowledge.

ERROR CODES

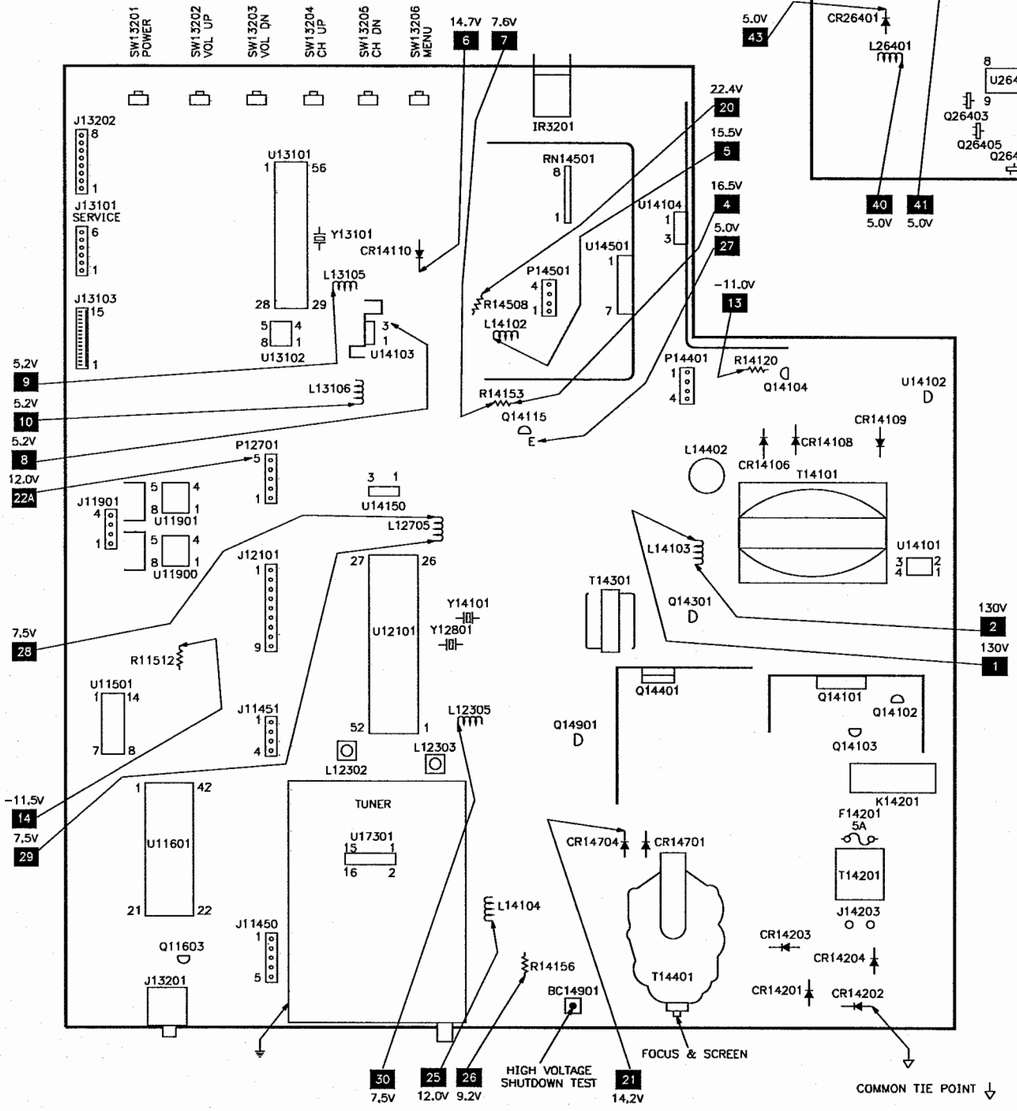
If certain failures occur, the matching error codes will be stored in the EEPROM. These error codes will be displayed in parameters 1, 2, and 3. The first failure error code will be stored at parameter 1 and the second failure error code will be stored at parameter 2. Parameter 3 will be updated to display the most recent failure occurred in the chassis. If a failure of a bus IC occurred, the normal acknowledgment checking of that bus will be disabled in the service mode and the address of that IC which failed will be stored in one of the error code parameters. After every repair is done to the chassis it is recommended to check the error code parameters, and reset them back to value 0.

PLACEMENT CHART

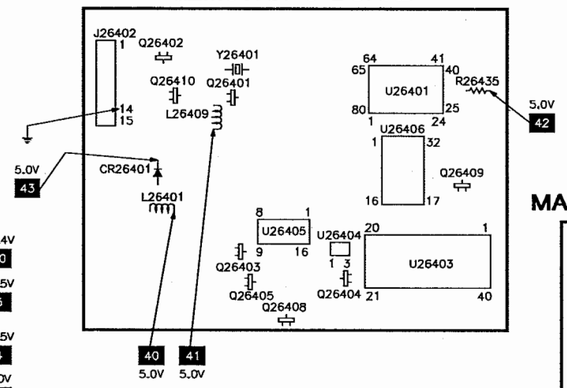
RCA

MODEL F25424TX51 (CHASSIS CTC203AC9)

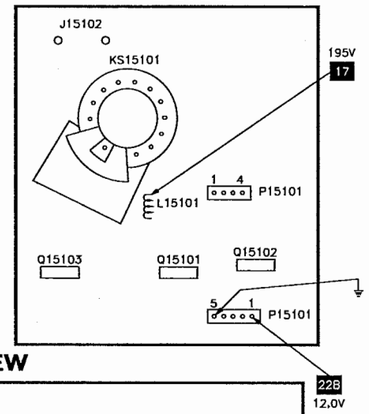
MAIN BOARD - TOP VIEW



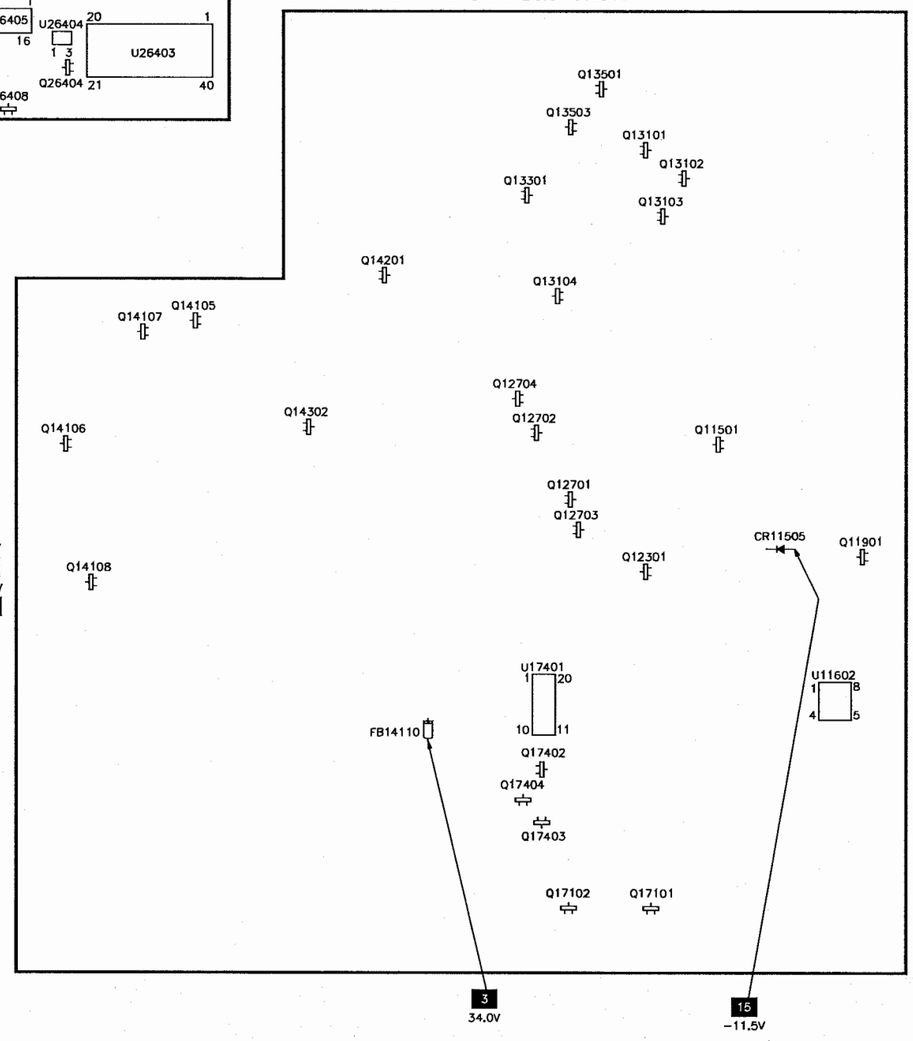
GEMSTAR 3 BOARD



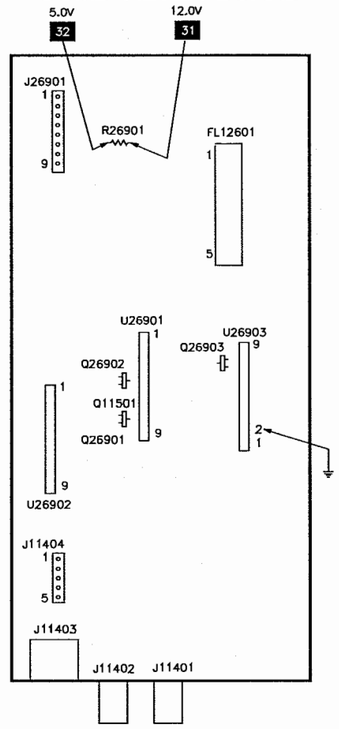
CRT BOARD



MAIN BOARD - BOTTOM VIEW



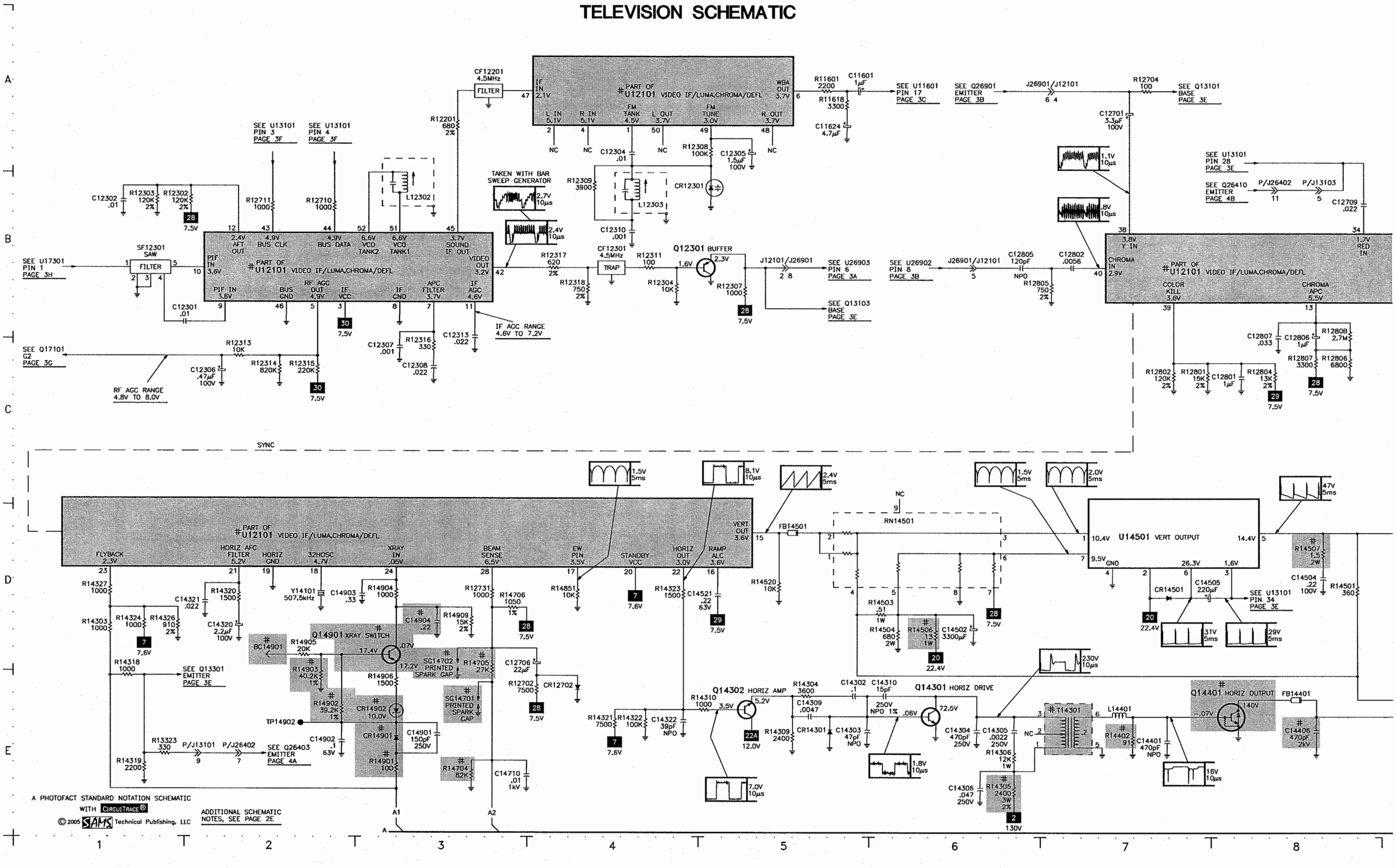
COMB FILTER BOARD



TELEVISION SCHEMATIC

A

B



TELEVISION SCHEMATIC continued

SEE U26401 PIN 50 PAGE 4B — P/J26402 13 — P/J13103 3
SEE U13101 PIN 26 PAGE 3E
SEE U26401 PIN 49 PAGE 4B — P/J26402 12 — P/J13103 4
SEE U13101 PIN 27 PAGE 3E
SEE U13101 PIN 25 PAGE 3E
SEE U26401 PIN 53 PAGE 4B — P/J26404 10 — P/J13103 6
C12710 .022
R12714 1000
C12711 .022
36 1.8V BLU IN
33 2.3V FSW IN
35 1.8V GRN IN
30 2.5V RED OUT
BLU OUT 2.6V 32
AKB IN 25
GRN OUT 2.5V 31
XTAL 2.9V 14
VID/VERT GND 27
TEST IT FILTER 5.4V 41
VID/VERT VCC 26
ABL FILTER 2.2V 29
BLK LEVEL DET 4.2V 37
Y12801 3.58MHz
C12803 15pF NPO
R12803 470
R12705 100K
C12704 4.7µF 100V
C12717 .01
C12703 1µF
R12726 2700
C12713 4.7µF 100V
C12718 100pF NPO
C12702 4.7µF 100V
R12703 390K
R12701 1000
29 7.5V

Q12702 RED BUFFER
R12707 390
2.6V
11.0V
2.0V
R12719 100
R12720 150
C12715 330pF NPO
4.5V 10µs
Q12704 CLAMP
.89V
1.5V
R12712 10K
R12713 620 2%
4.3V 10µs
29 7.5V
Q12703 BLUE BUFFER
R12708 390
2.7V
11.0V
2.1V
R12723 100
R12724 150
C12716 330pF NPO
3.4V 10µs
Q12701 GREEN BUFFER
R12706 390
2.6V
11.0V
2.0V
R12715 100
R12716 150
C12714 330pF NPO

R12721 220 2%
R12722 100K
7.6V 10µs
P12701 2
P15101 4
Q15101 RED BUFFER
11.3V
138V
11.9V
R15107 620
22B 12.0V
R15101 10K 2W
17 195V
R12725 220 2%
R12727 100K
7.5V 10µs
P12701 4
P15101 2
Q15103 BLUE BUFFER
11.3V
132V
11.9V
R15109 620
22B 12.0V
R15103 10K 2W
17 195V
R12717 220 2%
R12718 100K
5.9V 10µs
P12701 3
P15101 3
Q15102 GREEN BUFFER
11.3V
144V
11.9V
R15108 620
22B 12.0V
R15102 10K 2W
17 195V

184V 10µs
R15104 2200
SPARK GAP PART OF KS15101 CRT SOCKET
184V 10µs
R15106 2200
SPARK GAP PART OF KS15101 CRT SOCKET
136V 10µs
R15105 2200
SPARK GAP PART OF KS15101 CRT SOCKET
SPARK GAP PART OF KS15101 CRT SOCKET
R15118 2200
C15101 .001 3kV
EY15114
EY14408

SEE T14401 PIN 7 PAGE 2C
X
R14703 .68 3W
25V 10µs
EY14408
EY15110
SPARK GAP PART OF KS15101 CRT SOCKET
SPARK GAP PART OF KS15101 CRT SOCKET
10 9
138V 8
132V 11
144V 6
5
25.2V 7
5.6kV 1
GRN BLUE RED
A66ADT27X05 V101 CRT
SPARK GAP PART OF KS15101 CRT SOCKET
FOCUS RANGE 4.5kV TO 7.5kV
P/J15102 1
P/J15102 2
TO CRT SHIELD
SPARK GAP PART OF KS15101 CRT SOCKET

P14501 YOKE-V 4
DY1 YOKE
YOKE-H EY14401
YOKE-V
P14501 1
YOKE-H EY14402
C14404 2.2µF 200V
C14403 .41 250V
CR14401
R14401 15K 1W
L14402
MAGNET
C14405 .0047 250V
R14403 820 1W
C14402 .0127 1.6kV

T14401
HV ANODE RANGE 25.5kV TO 27.5kV
TO CRT ANODE
PART OF FOCUS LEAD
R5050
10
6
2
SEE POWER SUPPLY PAGE 2E
2 130V
FOCUS
SCREEN
4
9 SEE POWER SUPPLY PAGE 2E
8 SEE POWER SUPPLY PAGE 2E
5
7
28V 10µs
X SEE CRT FILAMENT PAGE 2D

T14401 BOTTOM VIEW
1 2 3 4 5 6 7 8 9 10

ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE®

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A1 A2 A3 A4 A3 A4 A
9 10 11 12 13 14 15 16

POWER SUPPLY SCHEMATIC

SCHEMATIC NOTES

For SAFETY use only equivalent replacement part, see parts list.

—|— Circuitry not used in some versions.

- - - - Circuitry used in some versions.

Ground

Chassis ground

Common tie point

△ Taken from common tie point

3 Schematic CIRCUITRACE® Voltage source tie point.

A — Cabling: Heavy lines reduce use of multiple lines.

Waveforms and voltages are taken from ground, unless otherwise noted.

Waveforms taken with triggered scope and colorbar signal. Waveform voltage is peak to peak. Timebase is per division. Waveforms shown at 10 divisions.

Supply voltages maintained as seen at input.

Voltages measured with digital meter and a 1000μV RF signal, with colorbar pattern applied to antenna terminal.

Controls adjusted for normal operation.

Capacitors are 50 volts or less, 5% or greater unless noted.

Capacitor values are in microfarads unless noted.

Electrolytic capacitors are 50 volts or less, 20% or greater unless noted.

Resistors are less than 1W, 5% or greater unless noted.

Value in ( ) used in some versions.

Measurements with switching as shown unless noted.

Rated voltage shown on zener diodes.

A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE®

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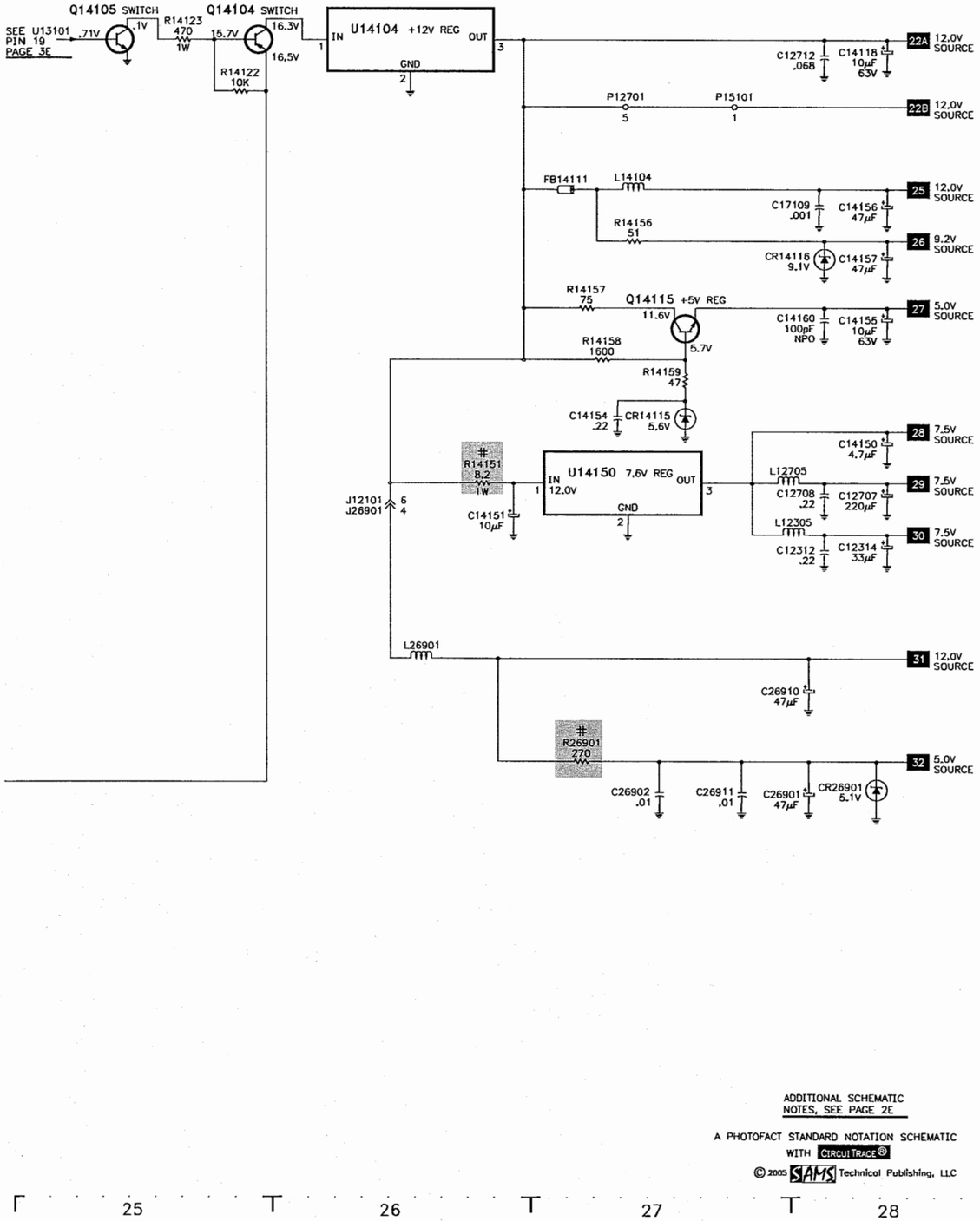
G
POWER SUPPLY SCHEMATIC continued



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

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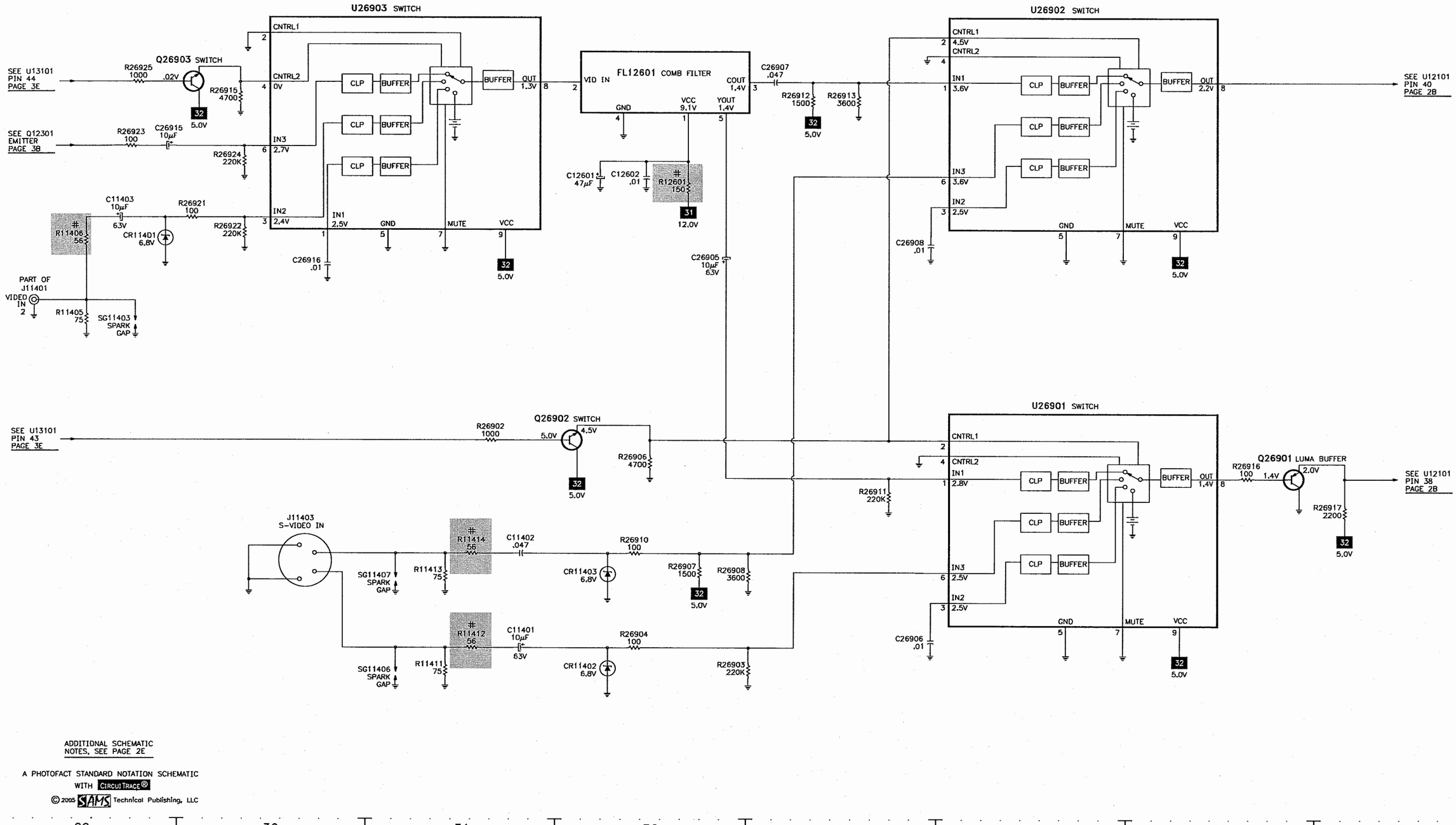
TEST EQUIPMENT

Test equipment listed by participating manufacturer illustrates typical or equivalent equipment used by Sams engineers to obtain measurements. This equipment is compatible with most types used by field service technicians.

Equipment	Sencore No.
Oscilloscope	SC3100
Generators	
RGB	CM2125
Multiburst Signal	VG91
Color Bar	VG91
TV Stereo	VG91
Digital VOM	SC3100
Frequency Meter	SC3100
Hi-Voltage Probe	HP200
Accessory Probes	TP212
Isolation Transformer	PR570
Capacitance Analyzer	LC102
CRT Analyzer	CR7000
AC Leakage Tester	PR570
Inductance Analyzer	LC102
Flyback Yoke Tester	TVA92
Field Strength Meter	SL753
Transistor Tester	TF46
Horizontal Analyzer	HA-2500
Video Analyzer	VG91, TVA92

COMB FILTER SCHEMATIC



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

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AUDIO SCHEMATIC

C

D

U11601 STEREO DECODER

SEE U12101 PIN 6 PAGE 2B

PART OF J11401 AUX L/MONO AUDIO INPUT

PART OF J11401 AUX R AUDIO INPUT

SG11402 PRINTED SPARK GAP

SG11401 PRINTED SPARK GAP

Q11603 SWITCH

Q11901 MUTE SW

SEE U13101 PIN 2 PAGE 3F

SEE U13101 PIN 4 PAGE 3F

SEE U13101 PIN 3 PAGE 3F

AMP PART OF U11602

AMP PART OF U11501

U11900 AUDIO OUTPUT

U11901 AUDIO OUTPUT

LEFT CHANNEL

RIGHT CHANNEL

PART OF J11402 LEFT HI-FI OUTPUT

PART OF J11402 RIGHT HI-FI OUTPUT

SEE U13101 PIN 37 PAGE 3E

ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE®

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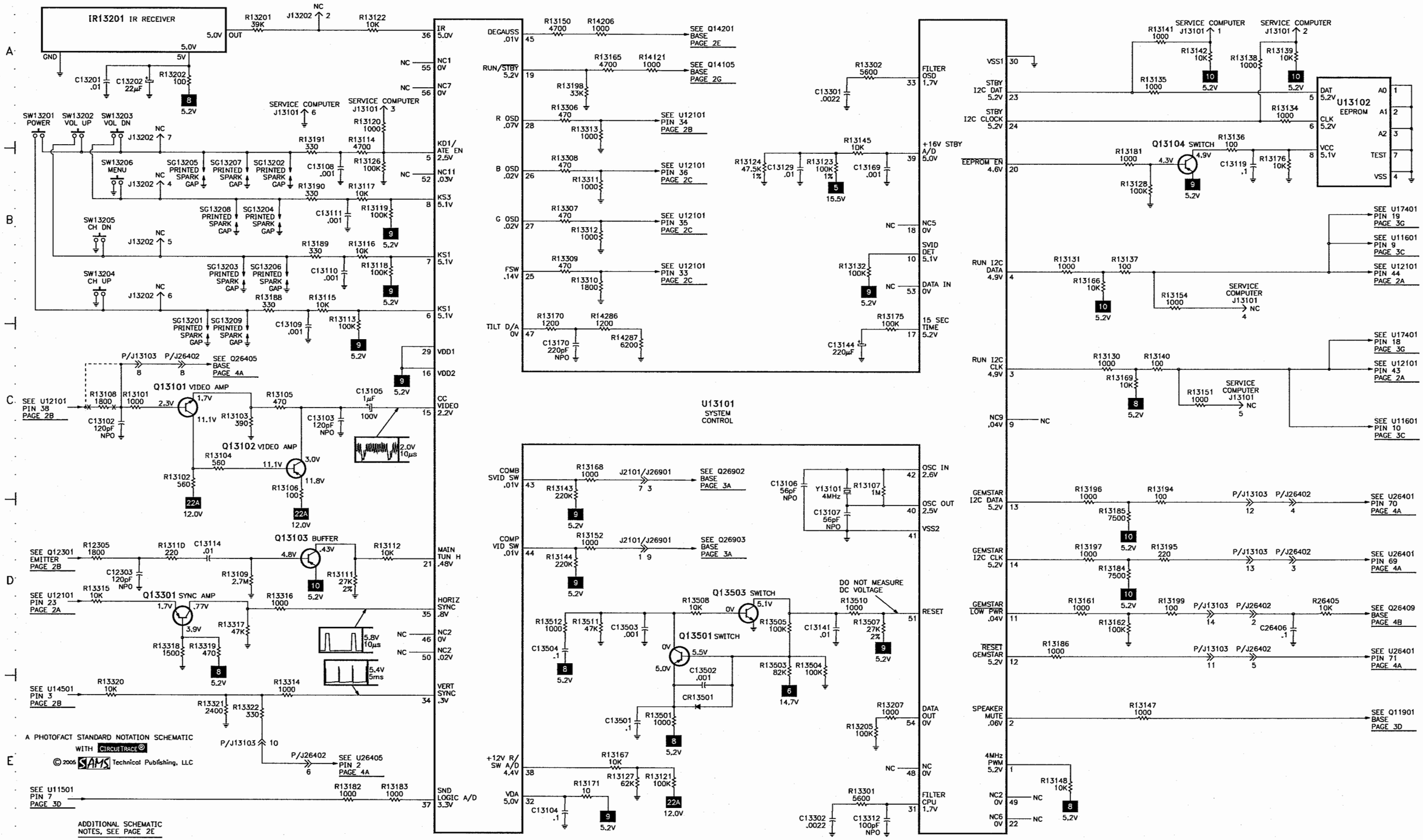
SYSTEM CONTROL SCHEMATIC



TUNER SCHEMATIC

G H

ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUIT TRACE®

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RCA MODEL F25424TX51 (CHASSIS CTC203AC9)

SEE U12101 PIN 5 PAGE 2A

R17130 47K

C17123 .001

R17109 10K

R17106 100K

C17124 27pF NPO

Q17101 UHF AMP

5.1V G2
0V G1
D 0V
S

J17101 75 RF IN

L17101 L17102

CR17101

C17103 22pF NPO

CR17114

C17139 20pF N220

R17148 100K

L17116 C17149 22pF NPO

L17117 C17151 20pF NPO

C17150 150pF NPO

L17118 C17153 39pF NPO

C17152 43pF NPO

C17136 180pF 2% NPO

C17128 16pF NPO 2%

C17140 6pF NPO

L17106 L17107 L17108

C17142 .001

CR17112

C17110 1.5pF NPO

CR17107

CR17106

R17113 47K

R17114 47K

L17110

C17137 330pF NPO

R17112 1200

R17138 1800

CR17105

R17141 100

C17134 .001

L17115

R17145 10K

C17107 .001

R17129 10K

C17148 .001

C17102 4pF NPO

R17101 100K

R17119 100K

C17116 .001

C17113 .001

C17117 2pF NPO

Q17102 VHF AMP

5.3V G2
1.8V G1
D 11.7V
S

R17123 27

L17109

Q17403 SWITCH

5V
11.8V
25 12.0V

C17130 .001

C17105 .75pF NPO

L17103

C17115 .001

C17127 120pF NPO

R17147 4.7 3W

PCB1

K

L17104 L17105

CR17102

CR17103

PCB2

C17108 27pF N750

R17150 100K

C17106 39pF

R17110 100K

R17124 10K

C17132 .001

R17108 10K

CR17108

C17119 .001

C17145 .001

CR17111

C17118 22pF NPO

R17151 10K

CR17109

L17111 L17113

L17112 L17114

CR17110

R17132 10

R17127 10

C17125 .001

R17125 2200

R17149 2200

C17126 .001

C17143 .001

C17112 .001

R17142 100

R17115 100K

C17301 1.5pF NPO

C17302 1.5pF NPO

R17122 100K

R17111 10K

R17128 100K

CR17113

C17122 .001

C17318 .001

R17136 100K

C17131 .001

R17303 47

C17304 2pF NPO

C17322 24pF 2% NPO

L17301

C17303 .001

C17307 20pF NPO

R17309 3.3K

C17104 .001

C17320 180pF NPO

26 9.2V

U17301 MIXER/OSC

12	UHF IN 3.2V	
8	VCC	
10	UHF LO 3.2V	
6	VHF GND	
13	UHF GND	
4	VHF HI 3.1V	
3	IF HI 7.6V	
5	IF LO 7.6V	
2	VHF LO 3.1V	
15	UOSC BYPASS 3.5V	
7	fLO BV/U 6.4V	
1	IF OUT 4.9V	
16	UHF OSC IN 3.5V	
14	UHF OSC OUT 9.3V	
9	VHF OSC IN 3.4V	
11	VHF OSC OUT 7.2V	

R17316 51

C17326 82pF 2% NPO

L17302

C17305 75pF NPO

R17317 390

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R17311 15

C17308 5pF N750

L17303

C17309 10pF N750

CR17301

R17310 47K

CR17304

R17302 47K

C17310 8pF N750

R17301 510

L17306

R17306 470

R17307 1000

C17312 5pF N750

R17308 18

C17311 5pF N750

C17314 .001

CR17302

L17304

C17323 6pF NPO

CR17303

L17305

R17313 1500

C17315 .001

R17417 470

C17415 .001

C17325 .001

C17413 .0068

R17315 10K

R17407 47K

C17316 8pF NPO

R17408 12K

C17403 .0018

C17402 .1 63V

R17404 47K

R17401 12K

C17404 .001

Q17404 SWITCH

.5V
11.8V
25 12.0V

R17410 470

R17413 4700

R17414 2000

25 12.0V

C17409 .001

C17111 .001

Q17402 SWITCH

-11.3V
11.7V
25 12.0V

R17415 10K

R17416 100K

25 12.0V

R17412 100K

13 -11.0V

27 5.0V

C17408 .01

C17412 .001

3 34.0V

C17407 .001

Y17401 4MHz

C17405 33pF NPO

U17401 PLL

6		13		16		15		14		10		7		17		9		8	20	12	4	1	2	3	5	11
1.6V ST		NC 1.2V ADR		NC 3.9V NC1		NC 0V BSX		11.1V BS1 BV/U		1.5V LO1		1.8V PRI		11.7V BS1/2		VCC1		2.1V SEC	XTAL1	GND	VCC	1.8V XTAL2	2.6V PHO	0V LOOP FILTER1	2.3V LOOP FILTER	1.5V LO2

SEE U13101 PIN 3 PAGE 3F

R17403 100

R17406 1000

C17417 43pF NPO

C17411 39pF NPO

CLOCK 4.9V

SEE U13101 PIN 4 PAGE 3F

R17402 100

R17405 1000

C17416 43pF NPO

C17410 39pF NPO

DATA 4.9V

GEMSTAR 3 SCHEMATIC

ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE®

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U26405 MONOSTABLE

U26403 DRAM

U26406 ROM

U26404 4.5V DET

U26401 MICROPROCESSOR

Q26405 VIDEO BUFFER

Q26408 FILTER

Q26404 FILTER

Q26403 HORIZ AMP

Q26401 BUFFER

Q26402 DRIVER

Q26410 BUFFER

Q26409 BUFFER

Y26401 4.03MHz

J13201 GEMSTAR IR BLASTER

SCHEMATIC COMPONENT LOCATION GUIDE

C11401	E31	C12602	B32	C14118	A28	C17112	C57	C26405	C24	CR13501	E48	J11402	C44	Q14106	D20	R11612	A40	R12719	A13	R13167	E48	R14114	C20	R15102	C15	R26404	B66	R26917	D36
C11402	D31	C12701	A7	C14119	B24	C17113	C55	C26406	D51	CR14101	B18	J11403	D30	Q14107	D21	R11613	B40	R12720	A13	R13168	C48	R14115	D20	R15103	B15	R26405	D52	R26921	B30
C11403	B29	C12702	C10	C14121	B24	C17115	B56	C26407	D65	CR14102	B19	J13201	B68	Q14108	B19	R11614	A41	R12721	A13	R13169	C51	R14116	D20	R15104	A15	R26406	D23	R26922	B30
C11450	B38	C12703	C10	C14122	A24	C17116	B55	C26408	D23	CR14103	C19	J17101	B53	Q14115	B27	R11615	C38	R12722	A13	R13170	C47	R14117	A20	R15105	C15	R26407	C63	R26923	B29
C11451	B38	C12704	C9	C14123	D21	C17117	C55	C26409	C63	CR14104	C19	K14201	A18	Q14201	B17	R11616	C38	R12723	B13	R13171	E48	R14118	A24	R15106	B15	R26408	A62	R26924	B30
C11455	C43	C12706	D4	C14124	A22	C17118	C56	C26411	C64	CR14105	C19	K14201	B17	Q14301	E6	R11617	B38	R12724	B13	R13175	C49	R14119	A23	R15107	A14	R26409	C63	R26925	B29
C11456	C43	C12707	C28	C14125	B20	C17119	B57	C26412	C23	CR14106	A22	L12302	B3	Q14302	E5	R11618	A5	R12725	B13	R13176	B51	R14120	D23	R15108	C14	R26410	C65	R5050	D12
C11501	D40	C12708	C28	C14150	C28	C17122	B58	C26413	C63	CR14107	B23	L12303	B4	Q14401	E7	R11619	C37	R12726	C10	R13181	B51	R14121	A48	R15109	B14	R26411	C64	RN14501	D5
C11502	D40	C12709	B8	C14151	C26	C17123	A55	C26414	C64	CR14108	B21	L12305	C27	Q14901	D3	R11620	C37	R12727	B13	R13182	E46	R14122	A25	R15118	D16	R26412	C64	RT14201	A18
C11503	D43	C12710	B9	C14152	B24	C17124	A55	C26415	C63	CR14109	B21	L12705	C27	Q15101	A14	R11621	B40	R12731	D3	R13183	E47	R14123	A25	R17101	B55	R26413	C64	SF12301	B1
C11504	D43	C12711	B11	C14153	B24	C17125	C56	C26416	C64	CR14110	B23	L13105	C24	Q15102	C14	R11622	B40	R12801	C7	R13184	D51	R14124	B22	R17106	A55	R26414	D65	SP1	A44
C11506	D38	C12712	A28	C14154	B27	C17126	C57	C26417	D65	CR14111	D21	L13106	C23	Q15103	B14	R11623	B41	R12802	C7	R13185	D51	R14126	D20	R17108	B56	R26415	B64	SP2	B44
C11507	E38	C12713	C10	C14155	B28	C17127	B56	C26418	D65	CR14113	E24	L14102	B22	Q17101	B55	R11624	B41	R12803	C9	R13186	D50	R14127	D21	R17109	A55	R26416	B64	SW13201	B45
C11601	A5	C12714	C13	C14156	B28	C17128	B53	C26419	B65	CR14114	E24	L14103	A23	Q17102	C55	R11625	A41	R12804	C8	R13188	C46	R14128	D21	R17110	B56	R26417	B63	SW13202	B45
C11602	C38	C12715	B13	C14157	B28	C17130	C56	C26421	B63	CR14115	C27	L14104	B27	Q17402	D57	R11626	A41	R12805	B7	R13189	B46	R14129	C20	R17111	B57	R26418	B63	SW13203	B45
C11603	C38	C12716	B13	C14158	B24	C17131	C57	C26422	B63	CR14116	B28	L14105	A23	Q17403	C55	R11627	C38	R12806	C8	R13190	B46	R14130	D23	R17112	C54	R26419	B63	SW13204	B45
C11604	C40	C12717	C9	C14159	B23	C17132	B57	C26423	A62	CR14117	C19	L14200	A18	Q17404	D56	R11701	D37	R12807	C8	R13191	B46	R14151	C26	R17113	C55	R26420	B63	SW13205	B45
C11605	D40	C12718	C10	C14160	B28	C17134	C54	C26425	A62	CR14201	A19	L14401	E7	Q26401	B67	R11702	E37	R12808	C8	R13194	D51	R14153	B23	R17114	C54	R26421	B64	SW13206	B45
C11606	C40	C12801	C8	C14161	D24	C17136	B53	C26426	B65	CR14202	A18	L14402	D9	Q26402	B67	R11703	D37	R13101	C45	R13195	D51	R14156	B27	R17115	B57	R26422	B67	T14101	A21
C11607	C40	C12802	B7	C14201	A17	C17137	C54	C26427	E65	CR14203	A19	L15101	D20	Q26403	B63	R11704	D38	R13102	C45	R13196	D50	R14157	B27	R17119	B55	R26423	A63	T14201	A17
C11608	B38	C12803	C9	C14203	A19	C17139	B54	C26428	D65	CR14204	A18	L17101	B53	Q26404	B65	R11705	D38	R13103	C46	R13197	D50	R14158	B27	R17122	B57	R26424	A63	T14301	E7
C11609	B38	C12805	B6	C14204	A19	C17140	C53	C26429	C23	CR14205	B17	L17102	B53	Q26405	A63	R11706	E38	R13104	C46	R13198	A48	R14159	B27	R17123	B56	R26425	B65	T14401	D11
C11610	C38	C12806	C8	C14205	A20	C17142	C53	C26430	D24	CR14301	E5	L17103	B56	Q26408	A65	R11707	E39	R13105	C46	R13199	D51	R14201	A17	R17124	B56	R26426	B65	T14401	E18
C11611	B38	C12807	C8	C14206	A20	C17143	C56	C26433	C68	CR14401	D10	L17104	A56	Q26409	C65	R11708	D37	R13106	D46	R13201	A46	R14202	A18	R17125	C56	R26427	B65	U11501	D37
C11612	D38	C13102	C45	C14207	B18	C17145	B57	C26435	C68	CR14501	D7	L17105	A57	Q26410	C67	R11709	E37	R13107	C49	R13202	A45	R14204	A20	R17127	C57	R26429	D63	U11501	D41
C11613	D38	C13103	C46	C14208	A17	C17148	C54	C26437	C67	CR14701	E19	L17106	C53	Q26901	D35	R11909	C43	R13108	C45	R13203	B68	R14205	A17	R17128	B57	R26430	A64	U11501	D42
C11614	C38	C13104	E47	C14302	E5	C17149	B53	C26438	C67	CR14702	D19	L17107	C53	Q26902	D31	R11910	A42	R13109	D46	R13205	E49	R14206	A48	R17129	C55	R26432	A64	U11501	E37
C11615	C38	C13105	C46	C14303	E5	C17150	B53	C26439	C24	CR14704	E20	L17108	C54	Q26903	B30	R11911	A42	R13110	D45	R13207	E49	R14286	C48	R17130	A54	R26433	D65	U11601	A39
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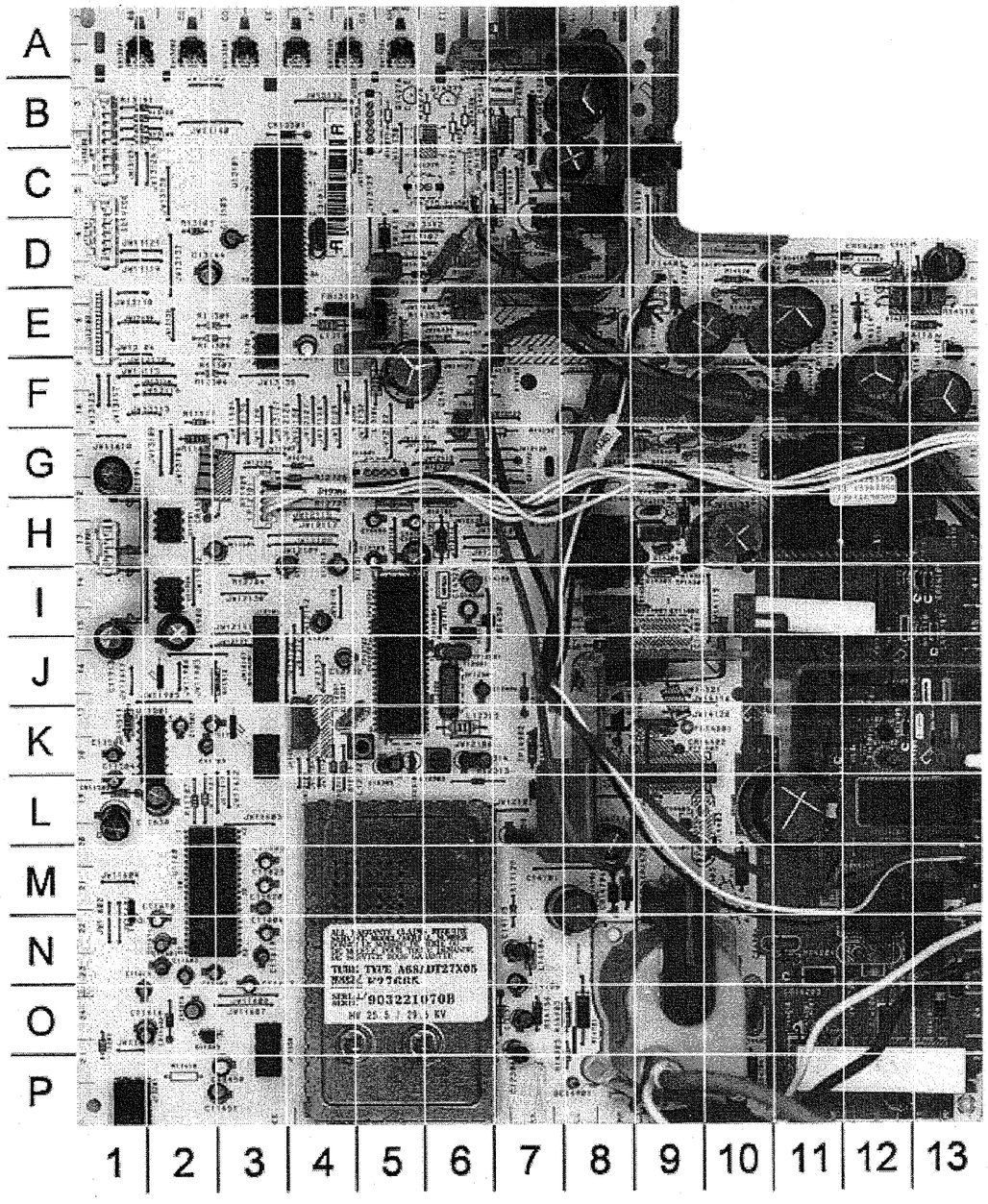
C11617	A38	C13107	D49	C14305	E6	C17152	C53	C26441	D24	CR14902	E3	L17110	C54	R11402	B38	R11913	B42	R13112	D46	R13302	A49	R14303	D1	R17136	C57	R26435	C23	U11602	B41
C11618	D38	C13108	B46	C14306	E6	C17153	B53	C26442	C23	CR17101	B54	L17111	C57	R11403	B37	R11915	B41	R13113	C46	R13306	A47	R14304	E5	R17138	C54	R26436	C66	U11900	A43
C11619	A38	C13109	C46	C14309	E5	C17301	A57	C26443	C23	CR17102	B56	L17112	C57	R11404	B38	R11917	C41	R13114	B46	R13307	B47	R14305	E6	R17141	C54	R26437	C66	U11901	B43
C11620	C40	C13110	B46	C14310	E5	C17302	B57	C26444	C23	CR17103	B57	L17113	C57	R11405	C29	R11918	C41	R13115	C46	R13308	B47	R14306	E6	R17142	D57	R26438	C67	U12101	A4
C11621	B40	C13111	B46	C14320	D2	C17303	C58	C26445	C24	CR17105	C54	L17114	C57	R11406	B29	R11919	C41	R13116	B46	R13309	B47	R14309	E5	R17145	C55	R26439	C67	U12101	B2
C11622	B40	C13113	C24	C14321	D2	C17304	C58	C26446	C24	CR17106	C54	L17115	C54	R11407	C44	R11920	A44	R13117	B46	R13310	B48	R14310	E4	R17147	B56	R26440	C67	U12101	B7
C11623	D40	C13114	D46	C14322	E4	C17305	A60	C26447	C24	CR17107	C54	L17116	B53	R11408	C44	R11921	B44	R13118	B47	R13311	B48	R14318	E1	R17148	B54	R26441	C68	U12101	D2
C11624	A5	C13115	C24	C14401	E7	C17307	D58	C26448	C24	CR17108	B56	L17117	B53	R11409	C44	R12201	A3	R13119	B47	R13312	B48	R14319	E1	R17149	C57	R26442	C68	U13101	C48
C11625	D40	C13119	B51	C14402	E9	C17308	B59	C26449	D24	CR17109	C56	L17118	B53	R11410	D44	R12302	B2	R13120	A47	R13313	B48	R14320	D2	R17150	B56	R26443	C67	U13102	A52
C11626	A39	C13129	B49	C14403	D9	C17309	B59	C26450	D65	CR17110	C57	L17301	C58	R11411	E31	R12303	B1	R13121	E48	R13314	E46	R14321	E4	R17151	C56	R26444	A64	U14101	C19
C11627	A39	C13141	D49	C14404	D9	C17310	C59	C26451	B66	CR17111	B57	L17302	A59	R11412	E31	R12304	B4	R13122	A46	R13315	D45	R14322	E4	R17301	C60	R26445	A64	U14102	D19
C11628	A41	C13144	C49	C14405	D10	C17311	C59	C26452	C23	CR17112	C54	L17303	B59	R11413	D31	R12305	D45	R13123	B49	R13316	D46	R14323	D4	R17302	B60	R26446	D65	U14103	B23
C11629	B39	C13163	B24	C14406	E8	C17312	C59	C26453	A65	CR17113	C57	L17304	D59	R11414	D31	R12306	E24	R13124	B49	R13317	D46	R14324	D1	R17303	C58	R26447	D65	U14104	A26
C11630	A41	C13165	C24	C14502	D6	C17314	C59	C26460	B61	CR17114	B54	L17305	D59	R11460	B38	R12307	B5	R13126	B47	R13318	D45	R14326	D1	R17306	C60	R26448	C65	U14150	C27
C11631	A41	C13169	B49	C14504	D8	C17315	D59	C26461	B61	CR17301	B60	L17306	C60	R11461	B38	R12308	A5	R13127	E48	R13319	D46	R14327	D1	R17307	C60	R26452	A65	U14501	D7
C11701	E37	C13170	C48	C14505	D7	C17316	E60	C26462	C23	CR17302	D60	L26401	C22	R11462	C43	R12309	B4	R13128	B51	R13320	E45	R14401	D10	R17308	C59	R26453	A64	U17301	B59
C11702	D38	C13201	A45	C14506	E21	C17318	C58	C26901	D28	CR17303	D59	L26402	C63	R11463	C43	R12311	B4	R13130	C50	R13321	E46	R14402	E7	R17309	D58	R26454	B61	U17401	E55
C11703	D38	C13202	A45	C14507	E21	C17320	B58	C26902	D27	CR17304	C59	L26403	C63	R11501	D40	R12313	C2	R13131	B50	R13322	E46	R14403	E10	R17310	B60	R26460	D63	U26401	C65
C11704	E38	C13301	A49	C14521	D5	C17322	C58	C26905	C32	CR26401	D23	L26409	C23	R11502	D40	R12314	C2	R13132	B49	R13323	E1	R14501	D8	R17311	B59	R26461	D65	U26403	C62
C11705	E38	C13302	E49	C14701	E20	C17323	D59	C26906	E33	CR26402	B67	L26901	C26	R11503	D40	R12315	C2	R13134	A51	R13501	E48	R14503	D5	R17313	D59	R26462	B61	U26404	E63
C11906	A42	C13312	E49	C14702	D19	C17325	D59	C26907	B33	CR26901	D28	PW14201	A17	R11504	D40	R12316	C3	R13135	A51	R13503	D49	R14504	D6	R17315	D60	R26463	B61	U26405	B62
C11907	B42	C13501	E48	C14703	D19	C17326	A59	C26908	B33	DY1	D9	Q11501	D23	R11505	D41	R12317	B4	R13136	B51	R13504	D49	R14506	D6	R17316	A59	R26464	B66	U26406	C61
C11908	C43	C13502	E48	C14704	D19	C17402	E60	C26910	D28	F14201	A17	Q11603	C38	R11506	D40	R12318	B4	R13137	B51	R13505	D49	R14507	D8	R17317	A60	R26465	E65	U26901	C34
C11909	B43	C13503	D48	C14706	E20	C17403	E59	C26911	D27	FB13101	E24	Q11901	C41	R11507	D41	R12601	B32	R13138	A51	R13507	D49	R14508	E20	R17401	E59	R26466	C66	U26902	A34
C11910	A42	C13504	D47	C14710	E3	C17404	E60	C26915	B29	FB14106	B22	Q12301	B4	R11508	D42	R12701	C10	R13139	A52	R13508	D48	R14509	E21	R17402	E53	R26467	C67	U26903	A31
C11912	B42	C14101	B19	C14711	E21	C17405	E59	C26916	C30	FB14107	A22	Q12701	C13	R11509	D42	R12702	E4	R13140	C51	R13510	D49	R14520	D5	R17403	E53	R26468	C67	V101	C16
C11913	A44	C14102	B20	C14901	E3	C17406	D24	CF12201	A3	FB14108	A22	Q12702	A13	R11510	D42	R12703	C10	R13141	A51	R13511	D48	R14701	D19	R17404	E59	R26469	C67	Y12801	B9
C11914	B44	C14103	B19	C14902	E2	C17407	E58	CF12301	B4	FB14109	B20	Q12703	B13	R11511	D38	R12704	A7	R13142	A51	R13512	D47	R14702	D20	R17405	E54	R26470	C67	Y13101	C49
C12301	C1	C14104	C19	C14903	D3	C17408	E57	CR11401	B29	FB14110	A24	Q12704	B13	R11512	E38	R12705	C9	R13143	D48	R14101	B18	R14703	A16	R17406	E54	R26901	D27	Y14101	D2
C12302	B1	C14105	C19	C14904	D3	C17409	D56	CR11402	E32	FB14111	B27	Q13101	C45	R11513	E23	R12706	C12	R13144	D48	R14102	B18	R14704	E3	R17407	E60	R26902	D31	Y17401	E58
C12303	D45	C14106	C20	C15101	D15	C17410	E54	CR11403	D32	FB14114	B21	Q13102	C46	R11514	D23	R12707	A12	R13145	B49	R14103	B19	R14705	E3	R17408	E59	R26903	E32	Y26401	D65
C12304	A4	C14107	C20	C17102	B55	C17411	E54	CR11501	D41	FB14401	E8	Q13103	D46	R11601	A5	R12708	B12	R13147	E51	R14104	B19	R14706	D3	R17410	D55	R26904	E32		
C12305	A5	C14108	A20	C17103	B55	C17412	E56	CR11502	D41	FB14501	D5	Q13104	B51	R11602	D39	R12710	B2	R13148	E50	R14105	C20	R14851	D4	R17412	D57	R26906	D32		
C12306	C2	C14109	A22	C17104	B58	C17413	D59	CR11503	D43	FB26401	E24	Q13301	D45	R11603	C39	R12711	B2	R13150	A47	R14106	B19	R14901	E3	R17413	D55	R26907	D32		
C12307	C3	C14110	A24	C17105	A56	C17415	D59	CR11504	E23	FB26402	E24	Q13501	D48	R11604	C39	R12712	B12	R13151	C51	R14107	B19	R14902	E2	R17414	D56	R26908	D32		
C12308	C3	C14111	B23	C17106	B56	C17416	E53	CR11505	E24	FL12601	B32	Q13503	D48	R11605	B38	R12713	B12	R13152	D48	R14108	B20	R14903	E2	R17415	D56	R26910	D32		
C12310	B4	C14112	B23	C17107	C54	C17417	E53	CR11601	B41	IR13201	A45	Q14101	B20	R11606	D38	R12714	B10	R13154	C51	R14109	B20	R14904	D3	R17416	D56	R26911	D33		
C12312	C28	C14113	B21	C17108	B57	C26401	C24	CR11602	C37	J11401	B37	Q14102	B19	R11607	D38	R12715	C13	R13161	D50	R14110	B19	R14905	D2	R17417	D59	R26912	B33		
C12313	C3	C14114	B24	C17109	B28	C26402	B67	CR11603	C37	J11401	B37	Q14103	B19	R11608	D38	R12716	C13	R13162	D51	R14111	C19	R14906	E3	R26401	B67	R26913	B33		
C12314	C28	C14115	C21	C17110	C54	C26403	C22	CR12301	B5	J11401	C29	Q14104	A25	R11609	D38	R12717	C13	R13165	A48	R14112	C19	R14909	D3	R26402	B66	R26915	B30		
C12601	B32	C14116	D23	C17111	D56	C26404	C24	CR12702	E4	J11402	C44	Q14105	A25	R11611	A40	R12718	C13	R13166	B50	R14113	C20	R15101	A15	R26403	B67	R26916	D35		

MAIN BOARD



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MAIN BOARD, GRIDTRACE LOCATION GUIDE

BC14901	P8	C12708*	I5	C14153*	I5	CR14109	F12	Q14106*	E13	R12201*	K4	R13123*	D4	R13319*	D5	R14403	G10
C11450	P3	C12709*	I5	C14154*	G6	CR14110	D5	Q14107*	E12	R12302*	K6	R13124*	C5	R13320	D5	R14501	C7
C11451	P3	C12710*	J5	C14155	N7	CR14111	E12	Q14108*	I12	R12303*	J5	R13126*	C3	R13321*	E5	R14503	B7
C11455*	O3	C12711*	J4	C14156	N7	CR14113*	P3	Q14115	E7	R12304*	J4	R13127*	C4	R13322	F4	R14504	D7
C11456*	O3	C12712*	H3	C14157	O7	CR14114*	P3	Q14201*	D8	R12305*	K4	R13128*	F4	R13323*	E1	R14506	D7
C11501*	K3	C12713	I4	C14158	L7	CR14115	F6	Q14301	H9	R12306*	K6	R13130*	C3	R13501*	C4	R14507	C7
C11502*	K3	C12714*	H4	C14159*	M7	CR14116	O7	Q14302*	G9	R12307*	K5	R13131*	C3	R13503*	B4	R14508	D6
C11503*	L1	C12715*	H4	C14160*	M7	CR14117	J13	Q14401	J9	R12308*	L5	R13132*	D4	R13504*	C4	R14509	D8
C11504	L1	C12716*	I4	C14161*	L6	CR14201	P11	Q14901	L7	R12309*	K6	R13134*	E4	R13505*	C4	R14520*	J5
C11506	K1	C12717*	J5	C14201	N13	CR14202	P11	R11460*	N3	R12311*	K4	R13135*	E4	R13507*	C4	R14701	O8
C11507	K2	C12718*	J5	C14203	O11	CR14203	N11	R11461*	O3	R12313	L6	R13136*	F3	R13508*	C4	R14702	E9
C11601	N2	C12801*	J5	C14204	O12	CR14204	O12	R11462*	P3	R12314*	K5	R13137*	B2	R13510*	C4	R14703	E8
C11602	N2	C12802*	J5	C14205	L11	CR14205	D12	R11463*	P3	R12315*	K5	R13138*	E3	R13511*	C4	R14704	P10
C11603	N2	C12803*	J6	C14206	N11	CR14301	H9	R11501*	K3	R12316*	K5	R13139*	E3	R13512*	D4	R14705	M10
C11604	N3	C12805*	J5	C14207	P12	CR14401	G8	R11502*	L3	R12317*	K4	R13140*	B2	R14101	K11	R14706	G6
C11605	M3	C12806	J6	C14208	O13	CR14501	C8	R11503*	K2	R12318*	K4	R13141*	E3	R14102	K11	R14851*	J5
C11606*	N3	C12807*	J5	C14302*	H9	CR14701	M8	R11504*	K3	R12701*	J4	R13142*	E3	R14103	K11	R14901	E7
C11607*	M3	C13102*	D2	C14303*	H9	CR14702	F9	R11505*	K1	R12702	G6	R13143*	D4	R14104	K12	R14902	K7
C11608*	N2	C13103*	D2	C14304	H9	CR14704	M8	R11506*	L3	R12703*	J4	R13144*	D4	R14105	I12	R14903	O8
C11609*	N2	C13104*	E4	C14305	I9	CR14901	E8	R11507*	K1	R12704	I3	R13145*	D4	R14106	K12	R14904	C7
C11610*	N2	C13105	D3	C14306	H9	CR14902	I7	R11508*	K2	R12705*	J5	R13147*	B3	R14107	K12	R14905	P8
C11611	N2	C13106*	D4	C14309*	H9	F14201	M12	R11509*	L1	R12706*	I5	R13148*	C3	R14108	K12	R14906*	K7
C11612*	N2	C13107*	D4	C14310	H9	FB13101	E4	R11510*	L1	R12707*	I5	R13150*	D4	R14109	J12	R14909*	L7
C11613*	M2	C13108*	C2	C14320	I6	FB14106	F11	R11511	K1	R12708*	I5	R13151*	B2	R14110	I12	R17402*	L5
C11614	O2	C13109*	C2	C14321*	I5	FB14107	F11	R11512	J3	R12710	K4	R13152*	C4	R14111	I13	R17403*	L5
C11615*	N3	C13110*	C2	C14322*	I6	FB14108	F11	R11513*	H3	R12711	K4	R13154*	B2	R14112*	H12	RN14501	C7
C11616	O1	C13111*	C2	C14401*	J8	FB14109	I12	R11514*	G3	R12712	G4	R13161*	C3	R14113	F12	RT14201	M11
C11617	O3	C13113*	E4	C14402	L9	FB14110*	M7	R11601*	N2	R12713*	G4	R13162*	C2	R14114*	F13	SF12301	J6
C11618	N2	C13114*	E2	C14403	F9	FB14111	N7	R11602*	M3	R12714*	I4	R13165*	D3	R14115	E13	SW13201	A1
C11619	N3	C13115	E4	C14404	F8	FB14114	F11	R11603*	N3	R12715*	H4	R13166*	C3	R14116	E13	SW13202	A2
C11620	M3	C13119*	F3	C14405	G9	FB14401	K8	R11604*	N3	R12716*	I4	R13167*	D4	R14117	I11	SW13203	A3
C11621*	M2	C13129*	C5	C14406	K9	FB14501	I6	R11605*	N2	R12717	G4	R13168*	D4	R14118	E13	SW13204	A4
C11622*	M2	C13141*	C4	C14502	B8	IR13201	A7	R11606*	M2	R12718*	H3	R13169*	C3	R14119	D13	SW13205	A5
C11623	M3	C13144	D2	C14504	B7	J11450	O3	R11607*	M2	R12719*	H5	R13170*	C4	R14120	D10	SW13206	A5
C11624	O1	C13163*	F5	C14505	C7	J11451	K3	R11608*	M2	R12720*	H5	R13171*	F4	R14121*	D11	T14101	G12
C11625*	M2	C13165*	D2	C14506	C8	J11901	H1	R11609*	M2	R12721	H4	R13175*	D3	R14122	D11	T14201	M12
C11626*	M2	C13169*	D4	C14507*	C8	J13101	E1	R11611*	M2	R12722*	H3	R13176*	F4	R14123	D11	T14301	H8
C11627*	M2	C13170*	B4	CI4521	I6	J13201	P1	R11612*	M2	R12723*	I4	R13181*	D3	R14124	E10	T14401	O9
C11628	L1	C13201*	A8	C14701	M8	K14201	L13	R11613*	M1	R12724*	I4	R13182*	D5	R14126*	F13	U11501	K2
C11629*	M2	C13202	A8	C14702*	M8	L12302	K5	R11614*	M2	R12725	G4	R13183*	D5	R14127*	E11	U11601	L2
C11630	L2	C13301*	E4	C14703	E10	L12303	K6	R11615*	N3	R12726	I5	R13184*	D3	R14128*	E10	U11602*	M2
C11631*	L1	C13302*	E4	C14704	F9	L12305	K6	R11616*	N2	R12727*	H3	R13185*	D3	R14129*	H13	U11900	I2
C11701*	K3	C13312*	E4	C14706*	M8	L12705	H6	R11617*	N2	R12731	H5	R13186*	D3	R14130	F12	U11901	H2
C11702*	K2	C13501*	B4	C14710	O10	L13105	E4	R11618*	O2	R12801*	J5	R13188	B2	R14151	H6	U12101	K5
C11703	K2	C13502*	B4	C14711	L8	L13106	F5	R11619*	N2	R12802*	J5	R13189	B2	R14153	E6	U13101	C3
C11704*	K3	C13503*	C4	C14901	E8	L14102	D6	R11620*	N2	R12803*	J6	R13190	B2	R14156	O7	U13102	E3
C11705	K2	C13504*	C4	C14902	E9	L14103	G10	R11621*	M2	R12804*	J4	R13191	B2	R14157	E7	U14101	H13
C11906*	I2	C14101	K12	C14903*	I5	L14104	N7	R11622*	M1	R12805*	J5	R13194*	D1	R14158	E7	U14102	F13
C11907*	H2	C14102	I11	C14904*	K7	L14105	D12	R11623*	M1	R12806*	J5	R13195*	D1	R14159	F6	U14103	F5
C11908	I2	C14103*	K12	C17109*	N6	L14401	I8	R11624*	M1	R12807*	K6	R13196*	D3	R14201	N13	U14104	C9
C11909	H3	C14104	J13	C17116*	L5	L14402	F10	R11625*	M1	R12808*	J6	R13197*	D3	R14202	P12	U14150	H5
C11910*	I2	C14105	K13	C17117*	L5	P12701	H3	R11626*	L2	R13101*	D2	R13198*	D4	R14204	N11	U14501	C8
C11912*	H2	C14106*	H12	CF12201	K5	P14401	D9	R11627	G2	R13102*	D2	R13199*	D1	R14205	O13	Y12801	J6
C11913	J1	C14107*	F13	CF12301	K4	Q11501*	H3	R11701*	K2	R13103	D2	R13201	A6	R14206*	D8	Y13101	D4
C11914	G1	C14108	I12	CR11501*	K2	Q11603	O2	R11702*	L2	R13104*	D2	R13202*	A6	R14286*	C5	Y14101	I6
CI2301*	J6	C14109	F11	CR11502*	K1	Q11901*	J1	R11703*	K2	R13105*	D3	R13203	O1	R14287*	C5		
CI2302*	I5	C14110	E11	CR11503	L1	Q12301*	K4	R11704*	K2	R13106*	D2	R13205*	B4	R14303	H7		
CI2303*	J4	C14111	D13	CR11504	H2	Q12701*	H4	R11705	L2	R13107*	D4	R13207*	C4	R14304*	H9		
CI2304*	K6	C14112	D12	CR11505*	J3	Q12702*	G4	R11706*	K3	R13108*	E2	R13301*	E4	R14305	I8		
CI2305	K5	C14113	F11	CR11601*	M1	Q12703*	J4	R11707	L2	R13109*	E2	R13302*	E4	R14306	H9		
CI2306	P7	C14114	F12	CR11602	O2	Q12704*	G5	R11708*	K2	R13110*	E2	R13306	F3	R14309	G9		
C12307*	K5	C14115	F12	CR11603*	N2	Q13101*	D3	R11709*	K2	R13111*	E2	R13307	E3	R14310	H7		
C12308*	K5	C14116	E12	CR12301*	K5	Q13102*	D3	R11909	G2	R13112*	E3	R13308	E3	R14318	D7		
C12310	K5	C14118	E10	CR12702	G7	Q13103*	E3	R11910*	I2	R13113*	C3	R13309	E3	R14319	D6		
C12312*	K5	C14119	F5	CR13501	B4	Q13104*	F4	R11911*	I2	R13114*	C3	R13310*	F2	R14320*	I6		
C12313*	J5	C14121	F13	CR14101	K11	Q13301*	D4	R11912*	H2	R13115*	C3	R13311*	F2	R14321*	I6		
C12314	K6	C14122	H10	CR14102	K11	Q13501*	C4	R11913*	H2	R13116*	C3	R13312*	F2	R14322*	I6		
C12701	I4	C14123*	E11	CR14103	I13	Q13503*	C4	R11915*	K1	R13117*	C3	R13313*	E2	R14323*	I6		
C12702	J4	C14124	F11	CR14104	I13	Q14101	J12	R11917	F2	R13118*	C4	R13314*	E5	R14324*	I6		
C12703*	H5	C14125	J11	CR14105	K12	Q14102	J12	R11918*	J1	R13119*	C4	R13315*	D5	R14326*	I6		
C12704	I4	C14150	H5	CR14106	F11	Q14103	K12	R11919*	J1	R13120*	C3	R13316*	D4	R14327*	I6		
C12706	F6	C14151	H5	CR14107	D13	Q14104	D10	R11920*	I1	R13121*	D5	R13317*	E5	R14401	G8		
C12707	H5	C14152	I6	CR14108	F11	Q14105*	D11	R11921*	H1	R13122*	D4	R13318*	D5	R14402	J8		

* Located on bottom of board.

PARTS LIST

Item No.	Type No.	Mfr. Part No.	NTE Part No.
CR11401, 02, 03	-	220638	NTE5014A
CR11501, 02	-	232709	-
CR11503	-	215488	NTE136A
CR11504	-	226463	-
CR11505	-	232709	-
CR11601	-	232709	-
# **CR11602**	-	159429	NTE5019T1
CR11603	-	232709	-
CR12301	-	227051	-
CR12702	-	198589	NTE519
CR13501	-	164874	NTE177
CR14101	-	232221	-
CR14102	-	198589	NTE519
CR14103, 04	-	139706	NTE177
CR14105	-	198589	NTE519
CR14106	-	243636	-
CR14107	-	217306	-
CR14108	-	243636	-
CR14109	-	176296	NTE552
CR14110	-	155276	NTE116
CR14111	-	198589	NTE519
CR14113, 14	-	232709	-
CR14115	-	215488	NTE136A
CR14116	-	227362	-
# **CR14117**	-	244224	-
CR14201 Thru			
CR14204	-	147015	NTE125
CR14205	-	198589	NTE519
CR14301	-	176296	NTE552
# **CR14401**	-	140971	NTE558
CR14501	-	155276	NTE116
CR14701	-	241304	-
CR14702	-	176296	NTE552
CR14704	-	207878	NTE519
# **CR14901**	-	157301	NTE177
# **CR14902**	-	159429	NTE5019T1
CR17101, 02, 03	-	215492	-
CR17105	-	215493	-
CR17106	-	233085	-
CR17107, 08	-	215494	-
CR17109, 10	-	215493	-
CR17111	-	215494	-
CR17112	-	215493	-
CR17113	-	233085	-
CR17114	-	215492	-

Item No.	Type No.	Mfr. Part No.	NTE Part No.
CR17301	-	215492	-
CR17302	-	215494	-
CR17303	-	215493	-
CR17304	-	215492	-
CR26401	-	223651	-
CR26402	-	232709	-
CR26901	-	198602	-
Q11501	-	215495	-
Q11603	-	177788	NTE31
Q11901	-	215495	-
Q12301	-	215496	-
Q12701, 02, 03	-	215495	-
Q12704	-	215496	-
Q13101	-	215495	-
Q13102, 03, 04	-	215496	-
Q13301	-	215496	-
Q13501	-	215496	-
Q13503	-	215495	-
# **Q14101**	-	244223	-
Q14102	-	147665	NTE159
Q14103	-	232218	-
Q14104	-	243955	-
Q14105, 06, 07	-	215495	-
# **Q14108**	-	215496	-
Q14115	-	229220	-
Q14201	-	219412	-
Q14301	-	146851	NTE287
Q14302	-	215495	-
# **Q14401**	-	242224	-
# **Q14901**	-	147665	NTE159
Q15101, 02, 03	-	215497	NTE2501
Q17101, 02	-	226973	-
Q17402	-	215496	-
Q17403	-	231534	-
Q17404	-	215496	-
Q26401	-	215496	-
Q26402	-	215495	-
Q26403, 04, 05	-	215496	-
Q26408	-	215496	-
Q26409	-	215495	-
Q26410	-	215496	-
Q26901	-	215496	-
Q26902, 03	-	215495	-
U11501	MC3403N	241785	NTE987
U11601	CXA2074S	237930	-

PARTS LIST continued

Item No.	Type No.	Mfr. Part No.	NTE Part No.
U11602	-	237474	-
U11900, 01	TDA7267	244225	-
# **U12101**	LA7612N	241266	-
	LA7612A	252842	-
U13101	ST9296N9B1/JBT	244226	-
U13102	24C08	244878	-
# **U14101**	-	223653	-
U14102	-	231525	-
U14103	L7852CV	241752	-
U14104	KA7812	162394	NTE966
U14150	L78S75CV	231526	-
U14501	TDA8172	232109	NTE1788
U17301	-	231528	-
U17401	-	231529	-
U26401	GS301A	241781	-
U26403	KM416C2560J-L6	241783	-
U26404	-	237669	-
U26405	HC123A	239151	-
U26406	-	244258	-
U26901, 02, 03	LA7221	227354	-

Item No.	Function/Rating	Mfr. Part No.	Notes
C11612, 13	22pF 5% 50V NPO	194903	-
C12303	120pF 5% 50V NPO	194902	-
C12714, 15, 16	330pF 5% 50V NPO	205227	-
C12718	100pF 5% 50V NPO	193340	-
C12803	15pF 5% 50V NPO	200538	-
C12805	120pF 5% 50V NPO	194902	-
C13102, 03	120pF 5% 50V NPO	194902	-
C13106, 07	56pF 5% 50V NPO	214741	-
C13170	220pF 5% 50V NPO	205551	-
C13312	100pF 5% 50V NPO	193340	-
# **C14102**	.0168 1.6kV	237355	-
# **C14108**	.0011 1.6kV	244208	-
# **C14111**	100µF 20% 63V	237425	-
# **C14112**	.01 10% 50V	240934	-
C14113, 15	680pF 10% 1kV	190538	-
C14159, 60	100pF 5% 50V NPO	193340	-
C14161	100pF 5% 50V NPO	174412	-
C14201	.22 250VAC	-	-
	.22 20% 125VAC	231451	-
# **C14203, 04**	680pF 10% 1kV	190538	-
# **C14205**	680µF 20% 200V	190560	-
# **C14207**	.005 20% 120V	195697	-
# **C14208**	470pF 10% 250VAC	250102	-

Item No.	Function/Rating	Mfr. Part No.	Notes
C14303	47pF 5% 50V NPO	214732	-
C14310	15pF 1% 250V NPO	223899	-
C14322	39pF 5% 50V NPO	202905	-
C14401	470pF 5% 50V NPO	195918	-
# **C14402**	.0127 1.6kV	246497	-
# **C14403**	.41 5% 250V	214752	-
# **C14404**	2.2µF 20% 200V	247673	-
# **C14405**	.0047 10% 250V	142765	-
# **C14406**	470pF 5% 2kV	227068	-
C14702	470pF 10% 500V NPO	227050	-
C14704	680pF 10% 1kV	190538	-
C14706	470pF 10% 500V NPO	227050	-
C14710	.01 20% 1kV	137583	-
# **C14904**	.22 +80% -20% 25V	217298	-
C15101	.001 10% 3kV	120696	-
C17102	4pF ±.25pF 50V NPO	244210	-
C17103	22pF 5% 50V NPO	194903	-
C17105	.75pF ±.25 50V NPO	214758	-
C17108	27pF 5% 50V N750	214760	-
C17110	1.5pF ±.1pF 50V NPO	223146	-
C17117	2pF ±.25pF 50V NPO	194905	-
C17118	22pF 5% 50V NPO	194903	-
C17124	27pF 5% 50V NPO	197604	-
C17127	120pF 5% 50V NPO	194902	-
C17128	16pF 2% 50V NPO	214736	-
C17136	180pF 2% 50V NPO	241265	-
C17137	330pF 5% 50V NPO	205227	-
C17139	20pF 5% 50V N220	244211	-
C17140	6pF ±.25pF 50V NPO	227250	-
C17149	22pF 5% 50V NPO	194903	-
C17150	150pF 5% 50V NPO	214032	-
C17151	20pF 5% 50V NPO	220150	-
C17152	43pF 5% 50V NPO	214029	-
C17153	39pF 5% 50V NPO	202905	-
C17301, 02	1.5pF ±.1pF 50V NPO	223146	-
C17304	2pF ±.25pF 50V NPO	194905	-
C17305	75pF 5% 50V NPO	192061	-
C17307	20pF 5% 50V NPO	220150	-
C17308	5pF ±.25pF 50V N750	231457	-
C17309	10pF ±.5pF 50V N750	244212	-
C17310	8pF ±.5pF 50V N750	214766	-
C17311, 12	5pF ±.25pF 50V N750	231457	-
C17316	8pF ±.5pF 50V NPO	194909	-
C17320	180pF 2% 50V NPO	241265	-
C17322	24pF 2% 50V NPO	231459	-

PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes
C17323	6pF ±.25pF 50V NPO	227250	-
C17326	82pF 2%	231460	-
C17405	33pF 5% 50V NPO	194911	-
C17410, 11	39pF 5% 50V NPO	202905	-
C17416, 17	43pF 5% 50V NPO	214029	-
C26402	220pF 5% 50V NPO	205551	-
C26413 Thru			
C26416	56pF 2% 50V NPO	239136	-
C26417, 18	68pF 2% 50V NPO	214762	-
C26421	100pF 5% 50V NPO	193340	-
C26423	33pF 2% 50V NPO	239138	-
C26433, 35, 37	33pF 2% 50V NPO	239138	-
C26438	22pF 2% 50V NPO	223698	-
C26453	100pF 2% 50V NPO	227089	-
C26460	330pF 2% 50V NPO	241779	-
C26461	220pF 5% 50V NPO	205551	-
CF12201	Filter	195702	4.5MHz
CF12301	Trap	238296	4.5MHz
# **DY1** (1)	Yoke	-	-
# **F14201**	Fuse	175425	5Amp, 125V
FB13101	Ferrite Bead	226467	-
FB14106, 07, 08	Ferrite Bead	237504	-
FB14109	Ferrite Bead	226467	-
FB14110, 11	Ferrite Bead	215546	-
FB14114	Ferrite Bead	237504	-
FB14401	Ferrite Bead	161237	-
FB14501	Ferrite Bead	215547	-
FB26401, 02	Ferrite Bead	226467	-
FL12601	Filter	225701	Comb
IR13201	Receiver	244227	IR
J11401	Jack	239389	Assembly
J11402	Jack	245283	Assembly
J11403	Jack	195705	S-Video Input
J13201	Socket	214609	Gemstar IR Blaster
J17101	Jack	215543	75 RF Input
# **K14201**	Relay	190490	Degaussing
# **KS15101**	Socket	233120	CRT
L12302	VCO	215502	-
L12303	FM	233056	-
L12305	10µH	175409	-
L12705	10µH	175409	-
L13105, 06	4.7µH	237451	-
L14102	-	190017	-
L14103	22µH	215504	-
L14104, 05	-	244222	-

Item No.	Function/Rating	Mfr. Part No.	Notes
# **L14200**	Degaussing	218764	-
L14401	6.8µH	191141	-
# **L14402**	Horizontal Linearity	192844	-
L15101	100µH	160186	-
L17101	-	215507	-
L17102	-	236641	-
L17103	-	223929	-
L17104, 05	-	223917	-
L17106	-	237456	-
L17107	-	233057	-
L17108	-	233074	-
L17109	-	200559	-
L17110	-	233075	-
L17111	-	233076	-
L17112	-	231441	-
L17113	-	233077	-
L17114	-	231441	-
L17115	-	233078	-
L17116	-	237461	-
L17117	-	237460	-
L17118	-	237461	-
L17301	-	231443	-
L17302	-	231444	-
L17303	-	233079	-
L17304	-	233080	-
L17305	-	236643	-
L17306	-	231448	-
L26401	2.2µH	197616	-
L26402, 03	2.2µH	239143	-
L26409	2.2µH	197616	-
L26901	-	244249	-
# **PW14201**	Line Cord	241251	AC, Polarized
# **R11401, 03**	2200 20% 1/4W	237429	-
# **R11406**	56 20% 1/4W	237448	-
# **R11407, 09**	2200 20% 1/4W	237429	-
# **R11412, 14**	56 20% 1/4W	237448	-
# **R11511, 12**	100 5% 1/4W Nonflammable	198667	-
R11616	61.9K 1%	225705	-
# **R11627**	10 5% 1/4W Nonflammable	241259	-
# **R11909**	16 5% 3W Nonflammable	244213	-
R12201	680 2% 1/10W	195939	-
R12302, 03	120K 2% 1/10W	207834	-
R12317	620 2% 1/8W	181493	-
R12318	750 2% 1/10W	202914	-
# **R12601**	150 5% 1/4W	176645	-

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PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes
R12713	620 2% 1/10W	205339	-
R12717, 21, 25	220 2% 1/4W	175324	-
R12801	15K 2% 1/10W	205354	-
R12802	120K 2% 1/10W	207834	-
R12804	13K 2% 1/8W	178285	-
R12805	750 2% 1/10W	202914	-
R13111	27K 2% 1/10W	205245	-
R13123	100K 1% 1/10W	215221	-
R13124	47.5K 1% 1/10W	237430	-
R13507	27K 2% 1/10W	205245	-
# **R14101**	47K 5% 3W	232213	-
# **R14102**	6800 5% 1/2W	179248	-
# **R14105**	68 5% 1/4W	175039	-
# **R14106**	2000 5% 1/4W	175321	-
# **R14107**	43	244214	-
# **R14108**	.1 5% 3W	244215	-
# **R14109**	750 5% 1/4W	179317	-
R14112	680 2% 1/10W	195939	-
R14115	143K .1%	244216	-
R14116	2800 .1% 1/4W	244217	-
# **R14117**	160 5% 7W	227958	-
# **R14118**	47K 5% 3W	232213	-
# **R14124**	3.3 5% 2W Nonflammable	223680	-
R14126	37.4K 1%	215215	-
# **R14151**	8.2 5% 1W	235378	-
# **R14201**	2.7M 10% 1/2W	217662	-
# **R14202**	1.8 10% 15W	200444	-
# **R14205**	120K 20% 1/2W	238903	-
# **R14305**	2400 2% 3W	235380	-
R14326	910 2% 1/10W	197627	-
# **R14401**	15K 5% 1W	190557	-
# **R14402**	91 5% 1/2W	227249	-
# **R14403**	820 5% 1W	175349	-
# **R14506**	13 5% 1W	231508	-
# **R14507**	1.5 5% 2W	237441	-
# **R14508**	1 5% 2W	215577	-
# **R14701**	10 20% 1/2W	241261	-
# **R14703**	.68 5% 3W	244221	-
# **R14704**	82K 10% 1/2W	239116	-
# **R14705**	27K 10% 1/2W	238958	-
R14706	1050 1% 1/4W	231511	-
# **R14901**	100 5% 1/4W Nonflammable	198667	-
# **R14902**	39.2K 1% 1/4W	190469	-
# **R14903**	40.2K 1% 1/4W	219026	-
R14909	15K 2% 1/10W	205354	-
# **R15101, 02, 03**	10K 5% 2W Nonflammable	176656	-
# **R15104, 05, 06**	2200 5% 1/2W	247669	-
# **R15118**	2200 5% 1/2W	247669	-
R17147	4.7 5% 3W	205411	-
R26462	357K 1% 1/10W	241780	-
# **R26901**	270 5% 1/2W	192410	-
RN14501	Resistor Network	215499	-
# **RT14201**	8 Cold PTC	207768	-
SF12301	Filter	217318	SAW
SP1, 2	Speaker	243893	60 X 90mm, 8 Ohms
SW13201	Switch	215500	Power
SW13202	Switch	215500	Volume Up
SW13203	Switch	215500	Volume Down
SW13204	Switch	215500	Channel Up
SW13205	Switch	215500	Channel Down
SW13206	Switch	215500	Menu
# **T14101**	SMT	244228	-
# **T14201**	Line Filter	190507	-
# **T14301**	Horizontal Drive	215541	-
# **T14401** (2)	Horizontal Output	244229	-
# **V101**	CRT	HA66ADT275	A66ADT27X05
Y12801	Crystal	161235	3.58MHz
Y13101	Crystal	230708	4MHz
Y14101	Resonator	227064	507.5kHz
Y17401	Crystal	230708	4MHz
Y26401	Filter	241784	4.03MHz
	PC Board	243874	Analog Comb Filter
	PC Board	243874	Comb Filter
	PC Board	244468	CRT
	PC Board	244160	Gemstar 3
	Transmitter	242524	Remote, CRK76TE1

 # For SAFETY use only equivalent replacement part.

(1) Bonded part of CRT.

(2) Screen and focus controls are part of T14401.

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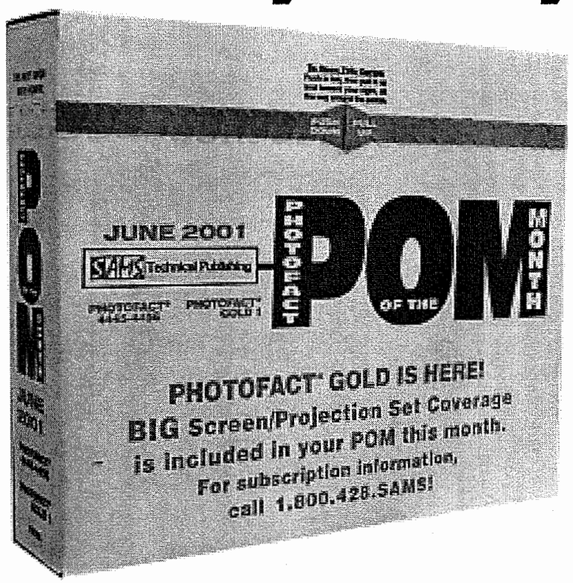

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